

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) **EP 0 932 135 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 19.07.2000 Bulletin 2000/29

(51) Int. Cl.⁷: **G09F 3/03**

(43) Date of publication A2: 28.07.1999 Bulletin 1999/30

(21) Application number: 99100009.2

(22) Date of filing: 02.01.1999

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

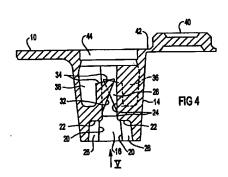
(30) Priority: 21.01.1998 AU PP143998

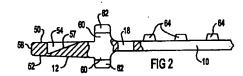
(71) Applicant: W.A. Deutsher Pty. Ltd. Moorabbin Victoria 3189 (AU) (72) Inventor: Wrigley, Andrew Nicholson Glen Eden, Auckland 7 (NZ)

(74) Representative:
Vetter, Ewald Otto et al
Meissner, Bolte & Partner
Anwaltssozietät GbR
Postfach 10 26 05
86016 Augsburg (DE)

(54) Security device

(57) A security device for forming a ring or shackle seal. The device includes a housing (14) at one end of a band (10) into which a male element (12) at the other end of the band is insertable. The housing has opposing laterally offset teeth (28) integrally formed therein for interlocking with complementary recesses (54, 56) in opposite faces of the male element to prevent withdrawal of the male element from the housing. The housing includes only the one entrance (16) for receiving the male element which element may include blocking means (60, 62) for occupying the opening into the housing. The device confers improved security in that the teeth are inaccessible for pre-tampering prior to the seal being formed and once formed, access into the housing is inhibited by the blocking means.







EUROPEAN SEARCH REPORT

Application Number EP 99 10 0009

DE 92 00 110 U (CZEWO PLAST 1-3 G09F3/03		DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where appropriate,			CI ACCEPTAN	W CE TA
KUNSTSTOFFTECNIK 26 March 1992 (1992–03–26)	Category				APPLICATION	(IntCL6)
# the whole document * 10,12 X US 5 364 141 A (KING F WAYNE) 15 November 1994 (1994-11-15) * column 3, 11ne 4 - column 4, 11ne 52; figures 1-6 * A EP 0 786 753 A (BROOKS CO E J) 30 July 1997 (1997-07-30) * abstract; figure 2 * A GB 2 168 654 A (ELC PROD SEGURANCA IND) 25 June 1986 (1986-06-25) * figure 3 * The present search report has been drawn up for all claims The present search report has been drawn up for all claims The HAGUE 26 May 2000 Puhl, A CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention	X	KUNSTSTOFFTECNIK)		1-3	G09F3/03	
15 November 1994 (1994-11-15) * column 3, line 4 - column 4, line 52; figures 1-6 * A EP 0 786 753 A (BROOKS CO E J) 30 July 1997 (1997-07-30) * abstract; figure 2 * A GB 2 168 654 A (ELC PROD SEGURANCA IND) 25 June 1986 (1986-06-25) * figure 3 * Techenical Fields BEARCHED (Initial GOS) Techenical Fields GOSF The present search report has been drawn up for all claims Place of search THE HAGUE 26 May 2000 Puh1, A CATEGORY OF CITED DOCUMENTS T: theory or principles underlying the invention	A			10,12		
30 July 1997 (1997–07–30) * abstract; figure 2 * A GB 2 168 654 A (ELC PROD SEGURANCA IND) 25 June 1986 (1986–06–25) * figure 3 * Technical Fields SEARCHED (finite of the search report has been drawn up for all claims Place of search The HAGUE Z6 May 2000 Puhl 1, A T: theory or principle underlying the invertion	X	15 November 1994 (1 * column 3, line 4	994-11-15)	1		
The present search report has been drawn up for all claims The HAGUE CATEGORY OF CITED DOCUMENTS Ticheory or principle underlying the invention T: theory or principle underlying the invention	A	30 July 1997 (1997-	07–30)	1		
The present search report has been drawn up for all claims Place of search Place of search THE HAGUE 26 May 2000 Puh1, A CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention	A	25 June 1986 (1986-		1		
The present search report has been drawn up for all claims Place of search Place of search THE HAGUE 26 May 2000 Puh1, A CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention		1				
The present search report has been drawn up for all claims Place of search THE HAGUE 26 May 2000 Puh1, A CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention						(intCL6)
Place of search THE HAGUE 26 May 2000 Puh1, A CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention						
THE HAGUE 26 May 2000 Puh1, A CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention		The present search report has	been drawn up for all claims			
CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention			•	i		
X : particularly relevant if talism alone Y : particularly relevant if calon alone Y : particularly relevant if combined with another document of the eamine category A : technological background	X:par Y:par do:	CATEGORY OF CITED DOCUMENTS tlouterly relevant if taken elone tlouterly relevant if combined with eno sament of the earne category	T : theory or pr E : certler pate after the fill ther D : document o	inciple underlying the nt document, but put ng date cited in the application	invertion staked on, or	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 10 0009

This annex lists the patent family members relating to the patent documents cited in the above—mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-05-2000

Patent document clted in search report		Publication date	Patent family member(s)		Publication date	
DE 9200110	U	26-03-1992	BR	9300008 A	13-07-199	
US 5364141	A	15-11-1994	NONE			
EP 0786753	A	30-07-1997	AU BR CA TR WO US	1521597 A 9612469 A 2242485 A 9700046 A 9727118 A 5884949 A	20-08-199 13-07-199 31-07-199 21-08-199 31-07-199 23-03-199	
GB 2168654	A	25-06-1986	BR IT	8406485 A 1208840 B	01-07-198 10-07-198	
		**************************************	IT 	1208840 B	10-07-1	

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82